

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/828,927	04/10/2001	Francis Luc Mathilda Arts	Q63668 6654	
SUGHRUE. M	7590 03/16/200 IION, ZINN, MACPEA	EXAMINER		
2100 Pennsylvania Avenue, N.W. Washington, DC 20037-3213			HO, CHUONG T	
			ART UNIT	PAPER NUMBER
		2616		
			-	
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MC	ONTHS	03/16/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

4

	Application No.	Applicant(s)				
	09/828,927	ARTS ET AL.				
Office Action Summary	Examiner	Art Unit				
	CHUONG T. HO	2616				
The MAILING DATE of this communication app Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION (6(a). In no event, however, may a reply be time (iill apply and will expire SIX (6) MONTHS from the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 03 Ja	nuary 2007.					
· – · · ·						
3) Since this application is in condition for allowan	pplication is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
. 4)⊠ Claim(s) <u>1,2 and 4-12</u> is/are pending in the app	lication	· ·				
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,2 and 4-12</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examine						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correcti						
11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 H.S.C. & 119(a)-(d) or (f)				
a) ⊠ All b) □ Some * c) □ None of:	priority under 55 5.5.5. § 115(a)	, (a) 5, (i).				
a)⊠ All b)⊡ Some c)⊡ None of. 1.⊠ Certified copies of the priority documents have been received.						
 2. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No. <u>00401006</u>. 						
3. Copies of the certified copies of the priority documents have been received in this National Stage 3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
	•					
	•					
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Do 5) Notice of Informal F					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date						
			•			

Application/Control Number: 09/828,927 Page 2

Art Unit: 2616

1. The amendment filed 01/03/07 have been entered and made of record.

2. Applicant's arguments with respect to claims 1-2, 4-12 have been considered but are most in view of the new ground(s) of rejection.

3. Claims 1-2, 4-12, are pending.

Drawings

The drawings (filed 01/04/06) are objected to under 37 CFR 1.83(a) because all 4. boxes in the figure 1 should be labeled descriptive legend. Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required

Art Unit: 2616

corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-2, 4-7, 9-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hino (U.S.Patent No. 6,172,976 B1) in view of Wallenius et al. (U.S.Patent No. 6,526,134 B1).

In the claim 1, Hino discloses the present invention relates to a telecommunications service control unit within a telecommunications switching network and method of operation of the telecommunications service control unit, and more particularly, to controlling a call processing between a call originating terminal and called terminal including switching operation (see col. 1, lines 7-11); FIG.8, is block diagram shows functional configuration and an operating environment, wherein communication services are implemented across a plurality of service controller (see col. 5, lines 9-12); comprising:

Art Unit: 2616

 A first service control module (figure 8, service implementation device 252) for issuing a first service request (see col. 7, lines 8-12, service requests) containing information regarding a requested services;

Page 4

- A first connection control module (figure 8, "711, 731, 721, 262, 222") having a
 first service interface receiving said first service request message from first
 service control module (service implementation device) and for sending a first
 link request message, and having a first physical device interface module
 responsive to first link request message for establishing connection to a first
 physical device (see figure 8, col. 24, lines 1-12, lines 41-50);
- A second connection control module (figure 8, service implementation devices 253, 254) for issuing a second service request message containing information regarding a requesting service (see col. 7, lines 8-12, service requests)
 containing information regarding a requested service;
- A second connection control module (figure 8, "712, 732, 722, 263, 223"; "713, 733, 723, 264, 224") having a second service interface receiving said second service request from said second service control module and for sending a second link request message, and having a second physical device interface module responsive to said second link request message for establishing connection to a second physical device (see figure 8, col. 24, lines 1-12, lines 41-50);

Art Unit: 2616

A communication channel between said first and second connection control modules ("711, 731, 721, 262, 222"; "712, 732, 722, 263, 223"; "713, 733, 723, 264, 224")

However, Hino is silent to disclosing two connection control modules which are part of the same switching node can each handle a half call and then can communicate with one another to connected their respective half calls.

Wallenius et al. disclose two connection control modules (Incoming call control, Outgoing call control) which are part of the same switching node can each handle a half call and then can communicate with one another to connected their respective half calls (col. 2, lines 30-35, controlling connection may be associated with an incoming or outgoing call, a straightforward solution would be to establish such a state model where the incoming and/or outgoing half-cal is associated with several controlling connections); comprising:

A first service control module (SCF1, SCF2) for issuing a first service request message containing information regarding a requested service (col.4, lines 65-67, Referring now to FIG. 3, one possible chain of events is described in connection with a call received at the exchange in connection with a call setup request. At stage 3-0 a call set-up request is received at the exchange, that is, a Setup message from A subscriber or from a preceding exchange. The call state model O-BCSM1 associated with an incoming half-call detects that it has to retrieve call set-up instructions from the SCF1);

Art Unit: 2616

- A first connection control module (figure 2A, incoming call control)
 receives said first service request message from said first service control
 module (figure 2A, SCF1, SCF2);
- A second service control module (figure 2A, 2B, SCF3) for issuing a second request message containing information regarding a request service (col. 4, lines 65-67); a second connection control module (figure 2A, outgoing call control) receives said second service request message from said second service control module (figure 2A, SCF3);
- A communication channel exist between first (figure 2A, incoming call control) and second (figure 2A, outgoing call control) connection control module.

Both Hino, and Wallenius disclose call setup. Wallenius recognizes two connection control modules which are part of the same switching node can each handle a half call and then can communicate with one another to connected their respective half calls. Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate two connection control modules which are part of the same switching node can each handle a half call and then can communicate with one another to connected their respective half calls taught by Wallenius into the system of Hino. One of ordinary skill in the art would be motivated to do so to establish such a state model where the incoming and/or outgoing half-call is associated with several controlling connections (col. 2, lines 31-33).

Application/Control Number: 09/828,927 Page 7

Art Unit: 2616

7. In the claim 2, Hino discloses wherein said first connection control module ("711, 731, 721, 262, 222"; "712, 732, 722, 263, 223"; "713, 733, 723, 264, 224") is further adapted to communicate with at least one other service control module (252, 253, 254) of switching node (see col. 25, lines 37-39).

- 8. In the claim 4, Hino discloses said service request message indicates that at least one of a predetermined type of physical device drivers is needed for establishing a connection pertaining to a call, said first service interface generates said first device interface (262, 263, 264) in response to said first service request message (see col. 14, lines 25-40, figure 8, col. 24, lines 1-10, lines 45-55).
- 9. In the claim 5, Hino discloses physical device interface module (262, 263, 264) is further adapted to transmit to an associated resource manager module (741), associated resource manager module (RM) being adapted to select from a plurality of physical device driver (see col. 14, lines 25-40) corresponding to said first physical device from a plurality of physical device drivers (see col. 14, lines 25-40) of said predetermined type and include in or coupled to said switching node based upon said resource request message (see col. 25, lines 15-21).
- 10. In the claim 6, Hino discloses first physical device interface handler (262, 263, 264) is further adapted to active associated physical device driver (see col. 14, lines 25-40), and to confirm activation to service interface handler (731, 732, 733).
- 11. In the claim 7, Hino discloses first service interface handler (731, 732, 733) is further adapted to confirm operation to first service control module (252, 253, 254) (see figure 8, col. 24, lines 1-10, lines 45-55).

Art Unit: 2616

- 12. In the claim 9, Hino discloses first service request message (see col. 25, lines 15-22) indicates that the operation of a physical device driver (see col. 14, lines 25-40) of switching node is to be modified (deleting or removed) service interface initiating a state change within an existing physical device interface handler (262, 263, 264) associated to physical device driver (see col. 14, lines 25-40) and included within connection control module ("711, 731, 721, 262, 222"; "712, 732, 722, 263, 223"; "713, 733, 723, 264, 224").
- 13. In the claim 10, Hino discloses first service request message indicates that at least one other connection control module is involved, service interface handler (731, 732, 733) is further adapted to communicate to a first service interface handler (731, 732, 733) communicates with said second connection control module ("711, 731, 721, 262, 222"; "712, 732, 722, 263, 223"; "713, 733, 723, 264, 224") (see col. 25, lines 15-21).
- 14. In the claim 11, Hino discloses upon communication with second service interface handler (731, 732, 733) of at least one other connection control module (701, 702, 703), service interface module (731, 732, 733) is further adapted to communicate to a physical device interface module (262, 263, 264) referred to in said first service request message and included in connection control module ("711, 731, 721, 262, 222"; "712, 732, 722, 263, 223"; "713, 733, 723, 264, 224").
- 15. In the claim 12, Hino discloses physical device interface module(262, 263, 264) referred to in service request message is further adapted to communicate with a second physical device interface (264, 262, 263) referred to in first service request message

Art Unit: 2616

and included in said second connection control module ("711, 731, 721, 262, 222"; "712, 732, 722, 263, 223"; "713, 733, 723, 264, 224") (see col. 24, lines 1-10, lines 45-55).

Claim Rejections - 35 USC § 103

- 16. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 17. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over the combined system (Hino Wallenius) in view of Hamami (U.S.Patent No. 6,724,723 B1). In the claim 8, the combined system (Hino Wallenius) disclose the limitations of claim 1 above.

However, Hino is silent to disclosing in case said result of analysis of service request message indicates that a physical device driver of switching node is to be removed from existing call connection, first deleting and existing physical device interface handler module associated to physical device driver and included within connection control module.

Hamami discloses in case said result of analysis of service request message indicates that a physical device driver of switching node is to be removed from existing call connection, first deleting and existing physical device interface handler module associated to physical device driver and included within connection control module (col. 3, lines 10-13, col. 6, lines 13-16).

Application/Control Number: 09/828,927 Page 10

Art Unit: 2616

Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate in case said result of analysis of service request message indicates that a physical device driver of switching node is to be removed from existing call connection, first deleting and existing physical device interface handler module associated to physical device driver and included within connection control module taught by Hamami into the combined system (Hino – Wallenius). One of ordinary skill in the art would be motivated to do so to execute the routing algorithm and associated protocol to route calls from the source to the destination.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHUONG T. HO whose telephone number is (571) 272-3133. The examiner can normally be reached on 8:00 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on (571) 272-3155. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2616

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

03/12/07

HUY D. VU

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600

) problet